PAT-NO:

JP409093302A

DOCUMENT-IDENTIFIER: JP 09093302 A

TITLE:

DIGITAL MOBILE RADIO COMMUNICATION SYSTEM

PUBN-DATE:

April 4, 1997

INVENTOR-INFORMATION:

NAME

COUNTRY

HAMAGUCHI, KIYOSHI

ASSIGNEE-INFORMATION:

NAME

COUNTRY

YUSEISHO TSUSHIN SOGO KENKYUSHON/A

APPL-NO: JP07269430

APPL-DATE: September 22, 1995

INT-CL (IPC): H04L027/38 , H04B007/26

ABSTRACT:

PROBLEM TO BE SOLVED: To improve transmission quality by using phase fluctuation formation of two consecutive pilot symbols so as to calculate a frequency offset between a transmission carrier and a quasi synchronization detection reference signal of a receiver so as to compensate the offset.

SOLUTION: The number of pilot symbols consisting of known data other than a frame symbol inserted in each frame is increased from one to two and the two pilot symbols are placed adjacent to each other. That is, one frame consists of N-sets of symbols and (N-2)sets of information symbols are in existence before the pilot symbols. In a signal to be sent, the information symbols are repeated in each frame. Let a phase difference between the adjacent pilot symbols be (ρm) then a frequency offset $\Delta \omega$ is expressed as $\Delta \omega = A\dot{\nu}e(\rho m)$. Thus, the frequency offset between a transmission carrier and a reference signal for quasi synchronization detection of a receiver is calculated by using phase fluctuation information of the two consecutive pilot symbols for compensation.

12/3/2008, EAST Version: 2.3.0.3

se for 2MV of jection